

FIGURE 11A-1

VK CHAIN

		FR1																				SEQ ID NO		
Munne 228B/C-1	Human Template	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Clone B		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	O	R	A	T	I	S	
Clone J		D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
Clone L		D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C
Clone N		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
Clone P		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
Clone R		D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #1		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #9		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #14		D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #17		D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #21		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #36		D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #65		D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #67		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #70		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #73		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #74		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #78		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #79		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #80		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #87		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #275		D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #284		D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #291		D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #300		D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #302		D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #322		D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #111		D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #115		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #116		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #117		D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #143		D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #162		D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #139		D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #177		D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C
HT2-NEW #313		D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C

FIGURE 11 A - 2

VK CHAIN

FR2

40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	SEQ ID NO	CDR2
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Murine 228B/C-1	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Human Template	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Clone B	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Clone J	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Clone L	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Clone N	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Clone P	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
Clone R	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #1	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #9	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #14	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #17	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #21	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #36	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #65	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #67	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #70	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #73	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #74	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #78	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #79	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #80	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #87	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #275	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #284	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #291	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #300	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #302	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #322	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #111	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #115	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #116	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #117	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #143	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #162	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #138	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #177	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29
HT2-NEW #313	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y	29

FIGURE 11 B -1

VK CHAIN

FR3

	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	CDR3	
Murine 228B/C-1	G	V	P	A	R	F	S	G	G	S	G	S	R	T	D	F	T	L	T	I	D	P	V	E	A	D	D	A	S	Y	C	30		
Human Template	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	S	L	Q	A	E	D	V	A	V	Y	C	31		
Clone B	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	P	L	Q	A	E	D	V	A	V	Y	C	32	
Clone J	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	C	33	
Clone L	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	P	L	Q	A	E	D	V	A	V	Y	C	34	
Clone N	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	Q	A	E	D	V	A	V	Y	C	35	
Clone P	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	C	36	
Clone R	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	Q	A	E	D	V	A	V	Y	C	37
HT2-NEW #1	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	P	V	Q	A	E	D	V	A	V	Y	C	38
HT2-NEW #9	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39
HT2-NEW #14	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	P	V	Q	A	E	D	V	A	V	Y	C	40
HT2-NEW #17	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	Q	A	E	D	V	A	V	Y	C	37
HT2-NEW #21	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	41
HT2-NEW #36	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	Q	A	E	D	V	A	V	Y	C	37
HT2-NEW #65	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	L	Q	A	E	D	V	A	V	Y	C	31
HT2-NEW #67	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	D	P	L	E	A	E	D	V	A	V	Y	C	42
HT2-NEW #70	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39
HT2-NEW #73	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	C	36	
HT2-NEW #74	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	P	V	Q	A	E	D	V	A	V	Y	C	43
HT2-NEW #78	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	C	44	
HT2-NEW #79	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	P	V	Q	A	E	D	V	A	V	Y	C	39
HT2-NEW #80	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39
HT2-NEW #87	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39
HT2-NEW #275	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	D	S	L	Q	A	E	D	V	A	V	Y	C	33
HT2-NEW #284	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	L	Q	A	E	D	V	A	V	Y	C	33
HT2-NEW #291	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	P	Q	A	E	D	V	A	V	Y	C	43
HT2-NEW #300	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	C	36	
HT2-NEW #302	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39
HT2-NEW #322	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	C	45	
HT2-NEW #111	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	D	P	L	Q	A	E	D	V	A	V	Y	C	32
HT2-NEW #115	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39
HT2-NEW #116	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	C	39	
HT2-NEW #117	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	C	39	
HT2-NEW #143	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	C	36	
HT2-NEW #162	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	Q	A	E	D	V	A	V	Y	C	46	
HT2-NEW #139	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	Q	A	E	D	V	A	V	Y	C	46	
HT2-NEW #177	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	C	44	
HT2-NEW #313	G	V	P	D	R	F	S	G	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	V	E	A	E	D	V	A	V	Y	C	39

FIGURE 11 B -2

VK CHAIN

FR4

	103	104	105	106	107	108	109	110	111	112	113	114	SEQ ID NO
Murine 228B/C-1	F	G	G	G	T	K	L	E	I	K	R	A	57
Human Template	F	G	G	G	T	K	V	E	I	K	R		58
Clone B	F	G	G	G	T	K	L	E	I	K	R		59
Clone J	F	G	G	G	T	K	L	E	I	K	R		59
Clone L	F	G	G	G	T	K	L	E	I	K	R		59
Clone N	F	G	G	G	T	K	V	E	I	K	R		58
Clone P	F	G	G	G	T	K	L	E	I	K	R		58
Clone R	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #1	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #9	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #14	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #17	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #21	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #36	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #65	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #67	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #70	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #73	F	G	G	G	T	K	L	E	I	K	R		59
HT2-NEW #74	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #78	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #79	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #80	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #87	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #275	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #284	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #291	F	G	G	G	T	K	L	E	I	K	R		59
HT2-NEW #300	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #302	F	G	G	G	T	K	L	E	I	K	R		59
HT2-NEW #322	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #111	F	G	G	G	T	K	L	E	I	K	R		59
HT2-NEW #115	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #116	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #117	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #143	F	G	G	G	T	K	L	E	I	K	R		59
HT2-NEW #162	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #139	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #177	F	G	G	G	T	K	V	E	I	K	R		58
HT2-NEW #313	F	G	G	G	T	K	V	E	I	K	R		58

FIGURE 11 C - 1

VK CHAIN

FR1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	SEQ ID NO	COL1
HT2-dp27 #7	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #13	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #19	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #29	D	I	V	L	T	Q	S	P	V	S	L	A	V	S	L	G	E	R	A	T	I	N	C	26	
HT2-dp27 #34	D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	24	
HT2-dp27 #40	D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	24	
HT2-dp27 #43	D	I	V	M	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	28	
HT2-dp27 #50	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #53	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #57	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #66	D	I	V	M	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	28	
HT2-dp27 #67	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #73	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	24	
HT2-dp27 #74	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #89	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #92	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #100	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #111	D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	24	
HT2-dp27 #112	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #118	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	154	
HT2-dp27 #123	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #136	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #144	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #146	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #15	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #26	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #83	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #164	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #177	D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	25	
HT2-dp27 #195	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #198	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #150	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #268	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #270	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #199	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #273	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #282	D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	25	
HT2-dp27 #304	D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	23	
HT2-dp27 #1558	D	I	V	L	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	23	
HT2-dp27 #274	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #275	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #276	D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	25	
HT2-dp27 #299	D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	24	
HT2-dp27 #301	D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	25	
HT2-dp27 #308	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #467	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #530	D	I	V	M	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	27	
HT2-dp27 #580	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #345	D	I	V	L	T	Q	S	P	A	S	L	S	V	S	L	G	E	R	A	T	I	N	C	24	
HT2-dp27 #374	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #443	D	I	V	M	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	23	
HT2-dp27 #458	D	I	V	M	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	22	
HT2-dp27 #470	D	I	V	L	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	25	
HT2-dp27 #471	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	
HT2-dp27 #486	D	I	V	M	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	28	
HT2-dp27 #610	D	I	V	M	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	C	28	
HT2-dp27 #624	D	I	V	M	T	Q	S	P	D	S	L	S	V	S	L	G	E	R	A	T	I	N	C	21	
HT2-dp27 #634	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	E	R	A	T	I	N	C	153	

FIGURE 11 C - 2

VK CHAIN

FR2

	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	SEQ ID NO	CB2
HT2-dp27 #7	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #13	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #19	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #29	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #34	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #40	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #43	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #50	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #53	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #57	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #66	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #67	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #73	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #74	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #89	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #92	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #100	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #111	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #112	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #118	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #123	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #136	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #14	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #146	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #15	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #26	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #83	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #164	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #177	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #195	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #196	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #150	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #268	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #270	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #196	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #273	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #282	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #304	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #1558	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #274	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #275	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #276	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #299	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #301	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #308	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #467	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #530	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #580	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #345	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #374	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #443	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #459	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #470	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #471	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #486	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #610	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #624	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29
HT2-dp27 #634	W	Y	Q	Q	K	P	G	Q	P	P	K	L	L	I	Y		29

FIGURE 11 D -1

VK CHAIN

FR3

	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	SEQ ID NO	CDR3		
HT2-dp27 #7	G	V	P	D	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47			
HT2-dp27 #13	G	V	P	D	R	F	S	G	S	G	S	G	S	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47		
HT2-dp27 #19	G	V	P	D	R	F	S	G	S	G	S	G	S	R	T	D	F	T	L	T	I	D	S	L	E	A	E	D	V	A	V	Y	Y	C	45	
HT2-dp27 #29	G	V	P	D	R	F	S	G	S	G	S	G	S	R	T	D	F	T	L	T	I	D	P	V	Q	A	E	D	V	A	V	Y	Y	C	35	
HT2-dp27 #34	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	P	V	Q	A	E	D	V	A	V	Y	Y	C	43	
HT2-dp27 #40	G	V	P	D	R	F	S	G	S	G	S	G	S	R	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	155	
HT2-dp27 #43	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47	
HT2-dp27 #50	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	E	A	E	D	V	A	V	Y	Y	C	49	
HT2-dp27 #53	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47	
HT2-dp27 #57	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	P	V	E	A	E	D	V	A	V	Y	Y	C	48	
HT2-dp27 #66	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	155
HT2-dp27 #67	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	33	
HT2-dp27 #73	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	E	A	E	D	V	A	V	Y	Y	C	49	
HT2-dp27 #74	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	44	
HT2-dp27 #89	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	Q	A	E	D	V	A	V	Y	Y	C	31	
HT2-dp27 #92	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	(T)	V	Q	A	E	D	V	A	V	Y	Y	C	50	
HT2-dp27 #100	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	E	A	E	D	V	A	V	Y	Y	C	49	
HT2-dp27 #111	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	44	
HT2-dp27 #112	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	L	E	A	E	D	V	A	V	Y	Y	C	42	
HT2-dp27 #118	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	P	L	Q	A	E	D	V	A	V	Y	Y	C	51
HT2-dp27 #123	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	S	L	E	A	E	D	V	A	V	Y	Y	C	52
HT2-dp27 #136	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	155
HT2-dp27 #144	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	V	Q	A	E	D	V	A	V	Y	Y	C	55	
HT2-dp27 #146	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	V	Q	A	E	D	V	A	V	Y	Y	C	55	
HT2-dp27 #15	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	L	E	A	E	D	V	A	V	Y	Y	C	42	
HT2-dp27 #26	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	P	V	E	A	E	D	V	A	V	Y	Y	C	156
HT2-dp27 #83	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	P	L	E	A	E	D	V	A	V	Y	Y	C	53
HT2-dp27 #164	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	P	L	E	A	E	D	V	A	V	Y	Y	C	157
HT2-dp27 #177	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	S	V	Q	A	E	D	V	A	V	Y	Y	C	37
HT2-dp27 #195	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	E	A	E	D	V	A	V	Y	Y	C	54	
HT2-dp27 #198	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47	
HT2-dp27 #150	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	L	E	A	E	D	V	A	V	Y	Y	C	49	
HT2-dp27 #268	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	E	A	E	D	V	A	V	Y	Y	C	33	
HT2-dp27 #270	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	33	
HT2-dp27 #271	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47	
HT2-dp27 #273	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	V	Q	A	E	D	V	A	V	Y	Y	C	55	
HT2-dp27 #282	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	P	V	E	A	E	D	V	A	V	Y	Y	C	40
HT2-dp27 #304	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	158
HT2-dp27 #155B	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	V	Q	A	E	D	V	A	V	Y	Y	C	35	
HT2-dp27 #274	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	P	V	Q	A	E	D	V	A	V	Y	Y	C	159	
HT2-dp27 #275	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	51	
HT2-dp27 #276	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	47	
HT2-dp27 #299	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	43	
HT2-dp27 #301	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	56	
HT2-dp27 #308	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	P	V	E	A	E	D	V	A	V	Y	Y	C	156
HT2-dp27 #467	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	Q	A	E	D	V	A	V	Y	Y	C	43	
HT2-dp27 #530	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	S	L	Q	A	E	D	V	A	V	Y	Y	C	160
HT2-dp27 #580	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	P	L	Q	A	E	D	V	A	V	Y	Y	C	53
HT2-dp27 #345	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	E	A	E	D	V	A	V	Y	Y	C	52	
HT2-dp27 #374	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	161
HT2-dp27 #443	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	S	L	E	A	E	D	V	A	V	Y	Y	C	52
HT2-dp27 #459	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	52
HT2-dp27 #470	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	V	Q	A	E	D	V	A	V	Y	Y	C	55	
HT2-dp27 #471	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	V	E	A	E	D	V	A	V	Y	Y	C	44	
HT2-dp27 #486	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	S	S	L	E	A	E	D	V	A	V	Y	Y	C	52
HT2-dp27 #610	G	V	P	D	R	F	S	G	S	G	S	G	S	G	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	162	
HT2-dp27 #624	G	V	P	D	R	F	S	G	S	G	S	G	S	G	R	T	D	F	T	L	T	I	D	S	L	Q	A	E	D	V	A	V	Y	Y	C	161
HT2-dp27 #634	G	V	P	D	R	F	S	G																												

FIGURE 11 D -2

VK CHAIN

FR4

	103	104	105	106	107	108	109	110	111	112	113	114	SEQ ID NO
HT2-dp27 #7	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #13	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #19	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #29	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #34	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #40	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #43	F	G	G	G	T	K	V	E	I	K	R		59
HT2-dp27 #50	F	G	G	G	T	K	L	E	I	K	R		58
HT2-dp27 #53	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #57	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #66	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #67	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #73	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #74	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #80	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #92	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #100	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #111	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #112	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #118	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #123	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #136	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #144	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #146	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #155	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #26	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #83	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #164	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #177	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #195	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #198	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #150	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #268	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #270	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #199	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #273	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #282	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #304	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #158	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #274	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #275	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #276	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #299	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #301	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #308	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #467	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #530	F	G	G	G	T	K	V	E	I	K	R		59
HT2-dp27 #580	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #345	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #374	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #443	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #459	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #470	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #471	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #486	F	G	G	G	T	K	L	E	I	K	R		59
HT2-dp27 #610	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #624	F	G	G	G	T	K	V	E	I	K	R		58
HT2-dp27 #634	F	G	G	G	T	K	V	E	I	K	R		58

FIGURE 12A - 1

VH CHAIN

FR1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SEQ ID NO	CDR1
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Murine 288B/C	Q	V	Q	L	Q	E	S	G	P	G	L	V	A	P	S	Q	S	L	S	I	T	C	T	V	S	G	F	S	L	N	60
DP27	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	L	T	C	T	F	S	G	F	S	L	S	61	
NEW	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
Clone 1	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	L	T	C	T	V	S	G	F	S	L	N	64	
Clone 2	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	L	T	C	T	V	S	G	F	S	L	N	64	
Clone 3	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	L	T	C	T	V	S	G	F	S	L	S	65	
Clone 4	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	L	T	C	T	V	S	G	F	S	L	N	64	
Clone 5	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-NEW #1	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #9	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #14	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #17	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #21	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #36	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #65	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #67	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #70	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #73	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	63
HT2-NEW #74	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #78	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #79	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #80	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #87	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #275	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #284	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #291	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #300	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #302	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #322	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #111	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #115	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #116	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #117	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #143	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #162	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #138	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #177	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62
HT2-NEW #313	Q	V	Q	L	Q	E	S	G	P	G	L	V	R	P	S	Q	T	L	S	L	T	C	T	V	S	G	S	T	F	S	62

FIGURE 12A - 2

VH CHAIN

FR2

	36	37	38	39	40	41	42	43	44	45	46	47	48	49	SEQ ID NO	CDR2
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Murine 288B/C	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
DP27	W	I	R	Q	P	P	G	K	A	L	E	W	L	A	68	
NEW	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
Clone 1	W	V	R	Q	P	P	G	K	A	L	E	W	L	G	70	
Clone 2	W	I	R	Q	P	P	G	K	A	L	E	W	L	A	68	
Clone 3	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71	
Clone 4	W	V	R	Q	P	P	G	K	A	L	E	W	L	G	70	
Clone 5	W	V	R	Q	P	P	G	K	A	L	E	W	L	G	70	
HT2-NEW #1	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #9	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #14	W	V	R	Q	P	P	G	K	G	L	E	W	I	G	163	
HT2-NEW #17	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #21	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #36	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #65	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
HT2-NEW #67	W	V	R	Q	P	P	G	R	G	L	E	W	L	G	164	
HT2-NEW #70	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #73	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
HT2-NEW #74	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
HT2-NEW #78	W	V	R	Q	P	P	G	K	G	L	E	W	I	G	163	
HT2-NEW #79	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
HT2-NEW #80	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #87	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #275	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #284	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #291	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #300	W	V	R	Q	P	P	G	R	G	L	E	W	L	G	164	
HT2-NEW #302	W	V	R	Q	P	P	G	R	G	L	E	W	L	G	164	
HT2-NEW #322	W	V	R	Q	P	P	G	R	G	L	E	W	L	G	164	
HT2-NEW #111	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
HT2-NEW #115	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #116	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #117	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #143	W	V	R	Q	P	P	G	K	G	L	E	W	I	G	163	
HT2-NEW #162	W	V	R	Q	P	P	G	R	G	L	E	W	I	G	69	
HT2-NEW #139	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-NEW #177	W	V	R	Q	P	P	G	K	G	L	E	W	I	G	163	
HT2-NEW #313	W	V	R	Q	P	P	G	K	G	L	E	W	I	G	163	

FIGURE 12 B - 1

VH CHAIN

FR3

	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	82	82	82	83	84	85	86	87	88	89	89	90	91	92	93	94	SEQ ID NO	
Murine 288B/C	R	L	N	I	S	K	D	S	S	K	S	Q	V	F	L	K	M	S	S	L	O	S	D	D	T	A	R	Y	Y	C	A	G	76		
DP27	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	R	77		
NEW	R	V	T	M	L	K	D	T	S	K	N	Q	F	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	R	78		
Clone 1	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	79		
Clone 2	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	79		
Clone 3	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	80		
Clone 4	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81		
Clone 5	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81		
HT2-NEW#1	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	82		
HT2-NEW#9	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	83		
HT2-NEW#14	R	V	N	M	S	K	D	T	S	K	N	Q	F	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	R	84		
HT2-NEW#17	R	L	N	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	165	
HT2-NEW#21	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	83		
HT2-NEW#36	R	L	N	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	165	
HT2-NEW#65	R	L	T	I	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	166	
HT2-NEW#67	R	V	N	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	167	
HT2-NEW#70	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	83	
HT2-NEW#73	R	V	T	M	L	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	168	
HT2-NEW#74	R	V	T	I	L	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	169	
HT2-NEW#78	R	V	N	I	L	K	O	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	O	T	A	V	Y	Y	C	A	G	170	
HT2-NEW#79	R	V	T	I	L	K	O	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	O	T	A	R	Y	Y	C	A	G	169	
HT2-NEW#80	R	L	N	M	S	K	Q	T	S	K	N	Q	F	F	F	L	R	L	S	S	V	T	A	A	O	T	A	R	Y	Y	C	A	G	83	
HT2-NEW#87	R	L	N	M	S	K	Q	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	O	T	A	R	Y	Y	C	A	G	83
HT2-NEW#275	R	V	N	I	L	K	O	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	O	T	A	R	Y	Y	C	A	G	171
HT2-NEW#284	R	L	I	I	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	O	T	A	V	Y	Y	C	A	G	172	
HT2-NEW#291	R	L	T	I	L	K	D	T	S	K	N	D	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	173	
HT2-NEW#300	R	V	T	I	S	K	D	T	S	K	N	D	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	174	
HT2-NEW#302	R	V	N	M	S	K	D	T	S	K	N	D	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	175	
HT2-NEW#322	R	V	N	I	S	K	D	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	176
HT2-NEW#111	R	L	T	I	S	K	D	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	177
HT2-NEW#115	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	83
HT2-NEW#116	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	83
HT2-NEW#117	R	L	N	M	S	K	D	T	S	K	N	Q	F	F	F	F	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	83
HT2-NEW#143	R	V	N	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	167	
HT2-NEW#162	R	L	T	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	178	
HT2-NEW#138	R	V	T	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	179	
HT2-NEW#177	R	V	T	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	V	Y	Y	C	A	G	180	
HT2-NEW#313	R	V	N	M	S	K	D	T	S	K	N	Q	F	S	S	L	R	L	S	S	V	T	A	A	D	T	A	R	Y	Y	C	A	G	187	

FIGURE 12 B - 2

VH CHAIN

FR4

	103	104	105	106	107	108	109	110	111	112	113	SEQ ID NO
Murine 288B/C	W	G	H	G	T	S	V	T	V	S	S	91
DP27	W	G	Q	G	S	L	V	T	V	S	S	92
NEW	W	G	Q	G	S	L	V	T	V	S	S	92
Clone 1	W	G	H	G	S	L	V	T	V	S	S	181
Clone 2	W	G	H	G	S	L	V	T	V	S	S	181
Clone 3	W	G	H	G	S	L	V	T	V	S	S	181
Clone 4	W	G	Q	G	S	L	V	T	V	S	S	92
Clone 5	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #1	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #9	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #14	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #17	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #21	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #36	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #65	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #67	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #70	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #73	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #74	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #78	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #79	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #80	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #87	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #275	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #284	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #291	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #300	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #302	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #322	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #111	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #115	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #116	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #117	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #143	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #162	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #139	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #177	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-NEW #313	W	G	Q	G	S	L	V	T	V	S	S	92

FIGURE 12C - 1

VH CHAIN

FR1																													SEQ ID NO	CDR1		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
HT2-dp27 #7	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #13	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #19	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #29	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #34	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #40	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #43	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #50	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #53	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #57	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #66	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #67	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #73	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #74	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #89	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #92	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #100	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #111	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #112	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #118	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #123	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #136	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #144	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #146	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #15	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #26	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #83	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #164	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #177	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #195	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #198	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #150	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #268	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	F	S	G	F	S	L	N	66	
HT2-dp27 #270	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #199	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #273	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #282	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #304	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #155B	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #274	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #275	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	64	
HT2-dp27 #276	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65	
HT2-dp27 #299	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #301	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	
HT2-dp27 #308	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64	

FIGURE 12C - 2

VH CHAIN

FR1																													SEQ ID NO	CRI	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
HT2-dp27 #530	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65
HT2-dp27 #580	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65
HT2-dp27 #345	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64
HT2-dp27 #374	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65
HT2-dp27 #443	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65
HT2-dp27 #459	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64
HT2-dp27 #470	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65
HT2-dp27 #471	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64
HT2-dp27 #486	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64
HT2-dp27 #610	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	S	65
HT2-dp27 #624	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64
HT2-dp27 #634	Q	V	T	L	R	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	N	64

FIGURE 12C - 3

VH CHAIN

FR2

	36	37	38	39	40	41	42	43	44	45	46	47	48	49	SEQ ID NO
HT2-dp27 #7	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #13	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #19	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #29	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #30	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #40	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #43	W	I	R	Q	P	P	G	K	G	L	E	W	L	A	73
HT2-dp27 #50	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74
HT2-dp27 #53	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #57	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #66	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #67	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #73	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #74	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #89	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #92	W	I	R	Q	P	P	G	K	G	L	E	W	L	A	73
HT2-dp27 #100	W	V	R	Q	P	P	G	K	A	L	E	W	L	A	75
HT2-dp27 #111	W	I	R	Q	P	P	G	K	G	L	E	W	L	A	73
HT2-dp27 #112	W	I	R	Q	P	P	G	K	G	L	E	W	L	A	73
HT2-dp27 #118	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #123	W	V	R	Q	P	P	G	K	A	L	E	W	L	A	75
HT2-dp27 #136	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74
HT2-dp27 #144	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74
HT2-dp27 #146	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #15	W	V	R	Q	P	P	G	K	A	L	E	W	L	G	70
HT2-dp27 #26	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74
HT2-dp27 #80	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #164	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #177	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #195	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #198	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #150	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #268	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #270	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #199	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #273	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72
HT2-dp27 #282	W	V	R	Q	P	P	G	K	A	L	E	W	L	A	75
HT2-dp27 #304	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74
HT2-dp27 #1558	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #274	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67
HT2-dp27 #275	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #276	W	I	R	Q	P	P	G	K	A	L	E	W	L	A	68
HT2-dp27 #299	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74
HT2-dp27 #301	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71
HT2-dp27 #308	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67

CDR2

FIGURE 12C - 4

VH CHAIN

FR2

	36	37	38	39	40	41	42	43	44	45	46	47	48	49	SEQ ID NO	CR2
HT2-dp27#530	W	V	R	Q	P	P	G	K	A	L	E	W	L	G	70	
HT2-dp27#580	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71	
HT2-dp27#345	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	
HT2-dp27#374	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71	
HT2-dp27#443	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71	
HT2-dp27#459	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72	
HT2-dp27#470	W	V	R	Q	P	P	G	K	A	L	E	W	L	A	75	
HT2-dp27#471	W	I	R	Q	P	P	G	K	G	L	E	W	L	G	71	
HT2-dp27#486	W	I	R	Q	P	P	G	K	A	L	E	W	L	G	72	
HT2-dp27#610	W	V	R	Q	P	P	G	K	G	L	E	W	L	A	74	
HT2-dp27#624	W	I	R	Q	P	P	G	K	G	L	E	W	L	A	73	
HT2-dp27#634	W	V	R	Q	P	P	G	K	G	L	E	W	L	G	67	

FIGURE 12D - 1

VH CHAIN

	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	82A	82B	82C	83	84	85	86	87	88	89	90	91	92	93	94	SEQ ID NO	
HT2-dp27 #7	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #13	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #19	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	182	
HT2-dp27 #29	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #34	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	182	
HT2-dp27 #40	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #43	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183	
HT2-dp27 #50	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183	
HT2-dp27 #53	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81	
HT2-dp27 #57	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #66	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #67	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #73	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #74	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #89	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #92	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #100	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	90	
HT2-dp27 #111	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #112	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #118	R	L	T	I	S	K	D	I	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	184	
HT2-dp27 #123	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	80	
HT2-dp27 #136	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81	
HT2-dp27 #144	R	L	N	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87
HT2-dp27 #146	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #15	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183	
HT2-dp27 #26	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	R	85	
HT2-dp27 #63	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	182	
HT2-dp27 #164	R	L	N	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87
HT2-dp27 #177	R	L	N	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87
HT2-dp27 #195	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	182	
HT2-dp27 #198	R	L	T	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81
HT2-dp27 #150	R	L	T	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81
HT2-dp27 #268	R	L	N	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183
HT2-dp27 #270	R	L	N	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183
HT2-dp27 #199	R	L	T	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	81
HT2-dp27 #273	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	79	
HT2-dp27 #282	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88	
HT2-dp27 #304	R	L	T	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	80
HT2-dp27 #1556	R	L	N	I	S	K	D	T	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183
HT2-dp27 #274	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #275	R	L	T	I	S	K	D	(1)	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	86
HT2-dp27 #276	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	79	
HT2-dp27 #299	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	182	
HT2-dp27 #301	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87	
HT2-dp27 #308	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	182	

FIGURE 12D - 2

VH CHAIN

	FR3		66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	82A	82B	82C	83	84	85	86	87	88	89	90	91	92	93	94	SEQ ID NO	CDR3
HT2-dp27 #530	R	L	N	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	183			
HT2-dp27 #580	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88			
HT2-dp27 #345	R	L	N	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	R	89			
HT2-dp27 #374	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88			
HT2-dp27 #443	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	80			
HT2-dp27 #459	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88			
HT2-dp27 #470	R	L	N	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87			
HT2-dp27 #471	R	L	N	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	88			
HT2-dp27 #486	R	L	N	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87			
HT2-dp27 #610	R	L	N	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	87			
HT2-dp27 #624	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	T	Y	Y	C	A	G	79			
HT2-dp27 #634	R	L	T	I	S	K	D	S	S	K	N	Q	V	V	L	T	M	T	N	M	D	P	V	D	T	A	R	Y	Y	C	A	G	90			

FIGURE 12D - 3

VH CHAIN

FR4											SEQ ID NO
103	104	105	106	107	108	109	110	111	112	113	
HT2-dp27 #7	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #13	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #19	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #29	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #34	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #40	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #43	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #50	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #53	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #57	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #66	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #67	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #73	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #74	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #89	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #92	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #100	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #111	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #112	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #118	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #123	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #136	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #144	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #146	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #15	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #26	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #83	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #164	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #177	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #195	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #196	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #150	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #268	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #270	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #199	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #273	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #282	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #304	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #155E	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #274	W	G	H	G	S	L	V	T	V	S	S 181
HT2-dp27 #275	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #276	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #299	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #301	W	G	Q	G	S	L	V	T	V	S	S 92
HT2-dp27 #308	W	G	H	G	S	L	V	T	V	S	181

FIGURE 12D - 4

VH CHAIN

FR4

	103	104	105	106	107	108	109	110	111	112	113	SEQ ID NO
HT2-dp27 #530	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #580	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #345	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #374	W	G	H	G	S	L	V	T	V	S	S	181
HT2-dp27 #443	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #459	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #470	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #471	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #486	W	G	H	G	S	L	V	T	V	S	S	181
HT2-dp27 #610	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #624	W	G	Q	G	S	L	V	T	V	S	S	92
HT2-dp27 #634	W	G	H	G	S	L	V	T	V	S	S	181

FIGURE 15

SEQ ID NO:																
CDR-L1 L1-59 (parent)	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-5	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-13	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-42	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-48	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-50	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-56	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-65	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-69	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-82	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100
CL-94	R	A	S	K	S	V	D	S	Y	G	Q	S	F	M	H	100

SEQ ID NO:																
CDR-L3 L1-59 (parent)	Q	Q	N	N	E	D	P	R	T							115
CL-5	Q	Q	N	A	E	D	P	R	T							116
CL-13	Q	Q	N	N	E	D	P	R	T							115
CL-42	Q	Q	N	A	E	D	P	R	T							116
CL-48	Q	Q	N	N	E	D	P	R	T							115
CL-50	Q	Q	N	A	E	D	P	R	T							116
CL-56	Q	Q	N	A	E	D	P	R	T							116
CL-65	Q	Q	N	N	E	D	P	R	T							115
CL-69	Q	Q	N	A	E	D	P	R	T							116
CL-82	Q	Q	N	N	E	D	P	R	T							115
CL-94	Q	Q	N	A	E	D	P	R	T							116

SEQ ID NO:																
CDR-H1 L1-59 (parent)	A	Y	S	V	N											117
CL-5	A	Y	S	V	N											117
CL-13	A	K	S	V	N											118
CL-42	A	N	S	V	N											119
CL-48	A	N	S	V	N											119
CL-50	A	K	S	V	N											118
CL-56	A	K	S	V	N											118
CL-65	A	S	S	V	N											185
CL-69	A	N	S	V	N											119
CL-82	A	N	S	V	N											119
CL-94	A	N	S	V	N											119

SEQ ID NO:																
CDR-H3 L1-59 (parent)	D	G	Y	Y	P	Y	A	M	D	N						135
CL-5	D	G	Y	Y	P	Y	A	M	K	N						137
CL-13	D	G	Y	Y	P	Y	A	M	S	N						139
CL-42	D	G	Y	Y	P	Y	A	M	K	N						137
CL-48	D	G	Y	Y	P	Y	A	M	K	N						137
CL-50	D	G	Y	Y	P	Y	A	M	K	N						137
CL-56	D	G	Y	Y	P	Y	A	M	S	N						139
CL-65	D	G	R	Y	P	Y	A	M	K	N						138
CL-69	D	G	Y	Y	P	Y	A	M	D	N						135
CL-82	D	G	Y	Y	P	Y	A	M	K	N						137
CL-94	D	G	Y	Y	P	Y	A	M	K	N						137